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AP - JP19980239735 19980826

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FS - CPI;EPI

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PA - (NIPQ ) DAINIPPON PRINTING CO LTD

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PR - JP19980239735 19980826

XA - C2000-080431

XIC - C09K-019/32; H05B-033/08; H05B-033/14; H05B-033/22

XP - N2000-196330

- AB JP2000068052 NOVELTY The driving of liquid crystal element is performed at a temperature range, in which the liquid crystal phase exhibits highest liquid crystal property.
  - DETAILED DESCRIPTION Charge transparent material of liquid crystal is rod-shaped molecule which is based on the relation I+m+n=1-4 and I, m, n represent integers 0-4 respectively having respective 6 pi, 10 pi and 14 pi electronic group aromatic rings. Each electronic group aromatic ring is connected to charge transport material or with connection group which has mutually carbon-carbon double bond or carbon-carbon triple bond. The charge transport portion and light emission portion of the element are of monolayer structure. Alternately the charge transport material is (2-4'-octylphenyl)-6-dodecyloxynaphthalene, Crystal -79.3 deg. C-SmB-100.4 deg. C-SmA-121.3 deg. C-Iso. The temperature range of the driving shows a smectic B phase. The charge transport material is polymeric material containing liquid crystal material in principal chain or side chain. The liquid crystal material has charge transport material and fluorescent material, which exhibits polarization when electroluminescence light is emitted.
  - USE As material of photoreceptors such as copier, printer and electroluminescence material.
  - ADVANTAGE Superior quality liquid crystal element can be driven. Prevents inhibition of the row of liquid crystal molecule by introducing fluorescent material to charge transport material, for exhibiting fluorescent property.
  - DESCRIPTION OF DRAWING(S) The figure shows the model diagram of electroluminescence element.
  - (Dwg.1/5)
- IW LIQUID CRYSTAL ELEMENT DRIVE METHOD COPY PRINT OPERATE ELEMENT TEMPERATURE RANGE LIQUID CRYSTAL PHASE EXHIBIT HIGH LIQUID CRYSTAL PROPERTIES
- IKW LIQUID CRYSTAL ELEMENT DRIVE METHOD COPY PRINT OPERATE ELEMENT TEMPERATURE RANGE LIQUID CRYSTAL PHASE EXHIBIT HIGH LIQUID CRYSTAL PROPERTIES

NC - 001

OPD - 1998-08-26

ORD - 2000-03-03

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TI - Liquid crystal element driving method for copier, printer involves operating element at temperature range in which liquid crystal phase exhibits highest liquid crystal property